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TL Harris - Proceedings of the 2nd international symposium on ..., 2000 - portal.acm.org
... object's lifetime was considered to extend until the space it occupies was re- claimed by the **garbage collector**. ... VM logged the class of the object, the last 5 methods at the **allocation** site, each ... de-allocated and if, at that time, the object had been promoted to the old **generation**. ...
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Pretenuring in java by object lifetime and reference density using scratch-pad memory

KF Chong, CY Ho, AS Fong - Parallel, Distributed and Network ..., 2007 - ieeexplore.ieee.org
... to conclude that using stack predictor with stack depth of four can achieve the greatest effectiveness of site **prediction**. ... **allocation** site ... To exploit **generational garbage collection**, we introduce an effective pretenuring mechanism, which makes use of object lifetime and reference ...
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Method and apparatus for byte allocation accounting in a system having a multi-threaded application and a generational garbage collector that dynamically pre- ...

DL Dellefs, A Printezis, F Rojas - US Patent 7,598,867, 2009 - Google Patents
... This process begins in step 500 and proceeds to step 502 where, during a young **generation collection**, the number of bytes allocated at ... If **garbage collection** is being performed by parallel threads, each thread has a private array that maps global **allocation** site identifiers to ...
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Method and apparatus for dynamically pre-tenuring objects in a generational garbage collection system

DL Dellefs, A Printezis, F Rojas - US Patent 7,606,989, 2009 - Google Patents
... "Pre-tenuring" is a technique that increases the efficiency of **generational garbage collection** by identifying ... than-average lifetimes, decreasing their survival rates and increasing the efficiency of **collection**. ... is identifying the object allo- cations to be allocated in the old **generation**. ...
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... The **prediction** algorithm is shown as follows: ... we use a Memory Management Toolkit (MMTK) packaged in Jikes for memory **allocation** and **garbage** ... To exploit **generational garbage collection**, we introduce a pretenuring mechanism, which is premised on object lifetime and ...
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... Paper C introduces the CAT cache time metric and points out the large miss ratio re- duction that can be obtained by selective **allocation**. ... We tuned the **garbage collection** mechanism in the virtual machine by increasing the size of the new **generation** to 400 MB. ...
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BW Wah, MB Lowrie, GJ Li - Proceedings of the IEEE, 2002 - ieeexplore.ieee.org
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